

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

|                        |                     |
|------------------------|---------------------|
| Application Number     | 10/701,236          |
| Filing Date            | 11-04-2003          |
| First Named Inventor   | Brenda F. Baker     |
| Art Unit               | 1635                |
| Examiner Name          | Tracy Ann Vivlemore |
| Attorney Docket Number | ISIS-5207           |

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |
|------------------------|--------------------------|--|--------------------------------|--|---|
|                        |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
| /T.V./                 | 1                        | U.S. 4,720,483                             | 01-19-1988                     | Jansz et al.                                       |   |
|                        | 2                        | U.S. 4,757,141                             | 07-12-1988                     | Fung et al.  |   |
|                        | 3                        | U.S. 5,082,934                             | 01-21-1992                     | Saba et al.  |   |
|                        | 4                        | U.S. 5,151,510                             | 09-29-1992                     | Stec et al.  |   |
|                        | 5                        | U.S. 5,424,413                             | 06-13-1995                     | Hogan et al.                                       |   |
|                        | 6                        | U.S. 5,506,212                             | 04-09-1996                     | Hoke et al.  |   |
|                        | 7                        | U.S. 5,561,043                             | 10-01-1996                     | Cantor et al.                                      |   |
|                        | 8                        | U.S. 5,631,148                             | 05-20-1997                     | Urdea  |   |
|                        | 9                        | U.S. 5,639,873                             | 06-17-1997                     | Barascut et al.                                    |   |
|                        | 10                       | U.S. 5,719,271                             | 02-17-1998                     | Cook et al.  |   |
|                        | 11                       | U.S. 5,760,202                             | 06-02-1998                     | Cook et al.  |   |
|                        | 12                       | U.S. 5,861,493                             | 01-19-1999                     | Cook et al.  |   |
|                        | 13                       | U.S. 5,891,684                             | 04-06-1999                     | Usman et al.                                       |   |
|                        | 14                       | U.S. 5,955,443                             | 09-21-1999                     | Bennett et al.                                     |   |
|                        | 15                       | U.S. 5,998,203                             | 12-07-1999                     | Matulic-Adamic et al.                              |   |
|                        | 16                       | U.S. 6,133,246                             | 10-17-2000                     | McKay et al.                                       |   |
|                        | 17                       | U.S. 6,210,892 B1                          | 04-03-2001                     | Bennett et al.                                     |   |
|                        | 18                       | U.S. 6,222,025 B1                          | 04-24-2001                     | Cook et al.  |   |
|                        | 19                       | U.S. 6,262,036 B1                          | 07-17-2001                     | Arnold, Jr. et al.                                 |   |
|                        | 20                       | U.S. 6,274,723 B1                          | 08-14-2001                     | Nilsen   |   |
|                        | 21                       | U.S. 6,506,559 B1                          | 01-14-2003                     | Fire et al.  |   |
|                        | 22                       | U.S. 6,818,759 B2                          | 11-16-2004                     | Beigelman et al.                                   |   |
|                        | 23                       | U.S. 7,022,828 B2                          | 04-04-2006                     | McSwiggen  |   |
|                        | 24                       | U.S. 2003/0125241 A1                       | 07-03-2003                     | Wissenbach et al.                                  |   |
|                        | 25                       | U.S. 2003/0139585 A1                       | 07-24-2003                     | Uhlmann et al.                                     |   |
|                        | 26                       | U.S. 2003/0143732 A1                       | 07-31-2003                     | Fosnaugh et al.                                    |   |
|                        | 27                       | U.S. 2003/0206887 A1                       | 11-06-2003                     | Morrissey et al.                                   |   |
|                        | 28                       | U.S. 2004/0029275 A1                       | 02-12-2004                     | Brown et al.                                       |   |
|                        | 29                       | U.S. 2004/0146867 A1                       | 07-29-2004                     | Slattum et al.                                     |   |
|                        | 30                       | U.S. 2005/0142535 A1                       | 06-30-2005                     | Damha et al.                                       |   |

**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages,<br>Columns,<br>Lines, Where<br>Relevant<br>Passages or<br>Relevant<br>Figures<br>Appear | T <sup>6</sup> |
|-----------------------|--------------------------|---|-----------------------------------|--|--|----------------|
|                       |                          | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known) |                                   |  |  |                |
| /T.V./                | 31                       | EP 0 266 168 A2   | 05-04-1988                        | Amoco Corp.  |  |                |
|                       | 32                       | WO 94/02498 A1  | 02-03-1994                        | Worcester Foundation for<br>Experimental Biology   |  |                |
|                       | 33                       | WO 96/07392 A2  | 03-14-1996                        | Hybridon, Inc.                                     |  |                |
|                       | 34                       | WO 02/44321 A2  | 06-06-2002                        | Max-Planck-Gesellschaft<br>Wissenschaften E.V.     |  |                |

Examiner  
SignatureDate  
Considered

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 3

**Complete if Known**

|                        |                     |
|------------------------|---------------------|
| Application Number     | 10/701,236          |
| Filing Date            | 11-04-2003          |
| First Named Inventor   | Brenda F. Baker     |
| Art Unit               | 1635                |
| Examiner Name          | Tracy Ann Vivlemore |
| Attorney Docket Number | ISIS-5207           |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|------------------------|--------------------------|---|----------------|
| /T.V./                 | 35                       | ALAHARI, <i>J. Pharmacology and Experimental Therapeutics</i> , 1998, 286, 419-428  |                |
|                        | 36                       | BEIGELMAN, <i>J. Biol Chem</i> , 1995, 270, 25702-25708   |                |
|                        | 37                       | BERGER, <i>Nucleic Acids Research</i> , 1998, 26, 2473-2480   |                |
|                        | 38                       | BEVILACQUA, <i>Biochemistry</i> , 1996, 35, 9983-9994   |                |
|                        | 39                       | BOUTLA, <i>Current Biology</i> , 2001, 11, 1776-1780  |                |
|                        | 40                       | COOK, <i>Anti-Cancer Drug Design</i> , 1991, 6, 585-607   |                |
|                        | 41                       | DAMHA, <i>J. Am. Chem. Soc.</i> , 120:12976-12977   |                |
|                        | 42                       | ELBASHIR, <i>EMBO J.</i> , 2001, 20, 6877-6888  |                |
|                        | 43                       | HAMMOND, <i>Nature</i> , 2001, 2, 110-119   |                |
|                        | 44                       | KIMURA-HARADA, <i>FEBS Lett.</i> , 1971, 13, 335-338;   |                |
|                        | 45                       | KOIZUMI, <i>Nucleic Acids Research</i> , 1989, 17, 7059-7071  |                |
|                        | 46                       | KUIMELIS, <i>Nucleic Acids Res.</i> 1994, 22, 1429-1436   |                |
|                        | 47                       | LESNIK, <i>Biochemistry</i> , 1995, 34, 10807-10815   |                |
|                        | 48                       | PARRISH, <i>Molecular Cell</i> , 2000, 6, 1077-1087   |                |
|                        | 49                       | PORTA, <i>Biotechnology</i> , 1995, 13, 161-164   |                |

Examiner  
SignatureDate  
Considered

|   |   |    |   |                          |                     |
|---|---|----|---|--------------------------|---------------------|
| Substitute for form 1449/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   |    |   | <b>Complete if Known</b> |                     |
|   |   |    |   | Application Number       | 10/701,236          |
|   |   |    |   | Filing Date              | 11-04-2003          |
|   |   |    |   | First Named Inventor     | Brenda F. Baker     |
|   |   |    |   | Art Unit                 | 1635                |
|   |   |    |   | Examiner Name            | Tracy Ann Vivlemore |
| Sheet   | 3 | of | 3 | Attorney Docket Number   | ISIS-5207           |

| NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials *             | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
| /T.V./                          | 50                    | SHUMAN, <i>J. Biol Chem</i> , 1993, 268, 18943-18950  |                |
|                                 | 51                    | TOSQUELLAS, <i>Nucleic Acids Research</i> , 1998, 26, 2069-2074   |                |
|                                 | 52                    | TRACEWELL, <i>Toxicology and Applied Pharmacology</i> , 1995, 135, 179-184  |                |
|                                 | 53                    | TUSCHL, <i>Molecular Interventions</i> , 2002, 2, 158-167   |                |
|                                 | 54                    | VERONESE, <i>Il Farmaco</i> , 1999, 54, 497-516   |                |
|                                 | 55                    | WILDS, <i>Nucleic Acids Res.</i> , 2000, 28, 3625-3635  |                |
|                                 | 56                    | WU, <i>J. Biol. Chem</i> , 1998, 273, 2532-2542   |                |
|                                 | 57                    | YU, <i>RNA</i> , 1997, 324-331  |                |
|                                 | 58                    | YU, <i>Bioorganic and Medicinal Chemistry</i> , 1996, 4, 1685-1692  |                |
|                                 | 59                    | Table listing related applications and office actions and rejections from those related applications  |                |

|                    |                   |                 |            |
|--------------------|-------------------|-----------------|------------|
| Examiner Signature | /Tracy Vivlemore/ | Date Considered | 04/10/2008 |
|--------------------|-------------------|-----------------|------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.